

SECTION VI.—BIBLIOGRAPHY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be of use to Weather Bureau officials in their meteorological work and studies.

Angola. Secretaria geral. Secção de estatística.

Resumos de observações meteorológicas efectuadas nos observatórios e postos de Angola. Ano de 1913. Loanda. 1914. 12 p. 35 cm.

Australia. Commonwealth bureau of meteorology.

Chart showing the drift of ocean current papers, [with table of] particulars extracted from ocean current papers returned to Commonwealth meteorological bureau. 1915. chart 38 x 56 cm.

Rain map of Australia for the year 1914, [and] maps showing the average district rainfall for each month during 1914. 1915. chart 56 x 72 $\frac{1}{2}$ cm.

Blue Hill meteorological observatory.

Observations and investigations, 1911–1914. Cambridge, [Mass.] 1915. 2 p. l., 95–177 p. 4 plates. 30 cm. (Annals of the Astronomical observatory of Harvard college, v. 73, pt. 2.)

Bolster, R. H.

River flow and flood prediction in the upper Mississippi drainage. (In Stone & Webster public service journal, Boston, September, 1915, p. 157–165.)

Bombay. Meteorologist.

Rainfall of the Bombay presidency, for years previous to 1891, v. 3. Bombay. 1914. iv, 825 p. 33 $\frac{1}{2}$ cm.

Coimbra. Observatorio meteorológico.

Observações meteorológicas, magnéticas e sísmicas, 1914, vol. 53. Coimbra. 1915. xii, 157 p. 36 $\frac{1}{2}$ cm.

Costanzi, Giulio.

Bradisismi e terremoti, con prefazione di G. Agamennone. Roma. 1915. viii, 105 p. 25 $\frac{1}{2}$ cm.

Friedrichshafen. Drachenstation am Bodensee.

Ergebnisse der Arbeiten, 1914. Herausgegeben vom Kgl. Württembergischen statistischen Landesamt. Stuttgart. 1915. xviii, 78 p. 32 $\frac{1}{2}$ cm.

Great Britain. Meteorological office.

Daily readings at meteorological stations of the first and second orders for the year 1914, forming section 1 of part III of the British meteorological and magnetic year-book for 1914. Edinburgh. 1915. viii, 56 p. 31 $\frac{1}{2}$ cm.

Geophysical journal, 1913, comprising daily values of the meteorological and geophysical elements at three observatories of the Meteorological Office, wind components at four stations, solar radiation at South Kensington, tabulations of occasional soundings of the upper air, and of cloud observations. Edinburgh. 1915. iv, 100 p. 31 $\frac{1}{2}$ cm. (British meteorological and magnetic year-book, pt. 3, sec. 2.)

Great Britain. Royal observatory, Greenwich.

Results of the magnetical and meteorological observations, 1913. Edinburgh. 1914. xxvi, 68 p. 30 $\frac{1}{2}$ cm.

Hamburg. Deutsche Seewarte.

Seehandbuch für den Indischen Ozean. Hamburg. 1915. vii, 107 p. map. (Sonderabdruck von den Rückseiten der Monatskarten für den Indischen Ozean.) [Contains brief account of pressure, wind, storms, etc., on the Indian Ocean.]

Herbertson, A. J., & Howarth, O. J. R., editors.

The Oxford survey of the British Empire. Oxford. 1914. 6 v. 23 cm. [v. 1, British Isles; v. 2, Asia; v. 3, Africa; v. 4, America; v. 5, Australasia; v. 6, General survey. Volumes 1 to 5 contain chapters on climate.]

Hesselberg, Th., & Sverdrup, H. U.

Die Reibung in der Atmosphäre. Leipzig. 1915. 309–241 p. 24 $\frac{1}{2}$ cm. (Veröffentlichungen des Geophysikalischen Instituts der Universität Leipzig, 2. Serie, Heft 10.)

Houzel, Ghislain.

Climatologie de la France. Paris. 1913. 59 p. 21 $\frac{1}{2}$ cm.

India. Meteorological Department.

Memorandum on the monsoon conditions prevailing during June and July, with a forecast for August and September, 1915, by G. C. Simpson. Simla. 1915. 3 p. 33 cm.

International council for the study of the sea.

Bulletin hydrographique pour l'année juillet 1913–juin 1914. Copenhague. 1915. v. p. plates. 32 $\frac{1}{2}$ cm.

Liverpool observatory, Bidston.

Report of the director, and meteorological results, 1914. Liverpool. 1915. 51 p. 24 cm.

Lyon, G. J.

Equipment for current-meter gaging stations. Washington. 1915. 64 p. 37 pl. 23 cm.

Pring, J. N.

The formation of ozone in the upper atmosphere, and its influence on the optical properties of the sky. (In Science progress, London, January, 1915, v. 9, p. 448–470.)

Richarz, Franz.

Brockengespenst, Dolomitengespenst und Ballongespenst. Wien & Leipzig. [1914.] 3 p. 25 cm. (Sonderabdruck aus der Deutschen Rundschau für Geographie, 36. Jahrgang, 1913/14, 4. Heft.)

Stok, J. P. van der.

On the relation between meteorological conditions in the Netherlands and some circumjacent places. Atmospheric pressure. 11 p. 26 $\frac{1}{2}$ cm. (K. Akad. van wetenschappen te Amsterdam. Reprinted from Proceedings of the meeting of Saturday June 26, 1915, v. 18, p. 310–320.)

On the relation between meteorological conditions in the Netherlands and some circumjacent places. Difference of atmospheric pressure and wind. 7 p. 26 $\frac{1}{2}$ cm. (K. Akad. van wetenschappen te Amsterdam. Reprinted from Proceedings of the Meeting of Saturday, June 26, 1915, v. 18, p. 321–327.)

Venezuela. Ministerio de fomento.

Anuario estadístico, 1912. [In Spanish, French, and English.] Caracas. 1915. xxi, 483 p. (Contains climatological summary for 1912, and comparative data from 1905–1912.)

West Hendon House observatory, Sunderland.

Meteorological observations [1857–1913], chiefly at Sunderland; by T. W. Backhouse. Sunderland. 1915. v. 188 p. front. 29cm. (Publication no. 4.)

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The subjoined titles have been selected from the contents of the periodicals and serials recently received in the library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Aircraft. New York. v. 6. June, 1915.

Currie, Erwin C. The atmosphere. p. 497–498.

American geographical society. Bulletin. New York. v. 47. September, 1915.

Ward, Robert DeCourcy. Climatic subdivisions of the United States. p. 672–680. [See this REVIEW, p. 467.]

American philosophical society. Proceedings. Philadelphia. v. 54. September, 1915.

Reid, Harry Fielding. Constitution of the interior of the earth as indicated by seismological investigations. p. 290–297.

Engineering news. New York. v. 74. 1915.

Herrick, Charles. Intensity of rainfall studied at Columbus,

Ohio. p. 678–679. (Oct. 7.)

Meteorology of West Indian hurricane, Sept. 22–Oct. 2 [1915]. p. 710–712. (Oct. 7.)

Horner, W. W. Extraordinary rain in St. Louis, with study of runoff. p. 742–743. (Oct. 11.)

Crohurst, Harry R. Cincinnati rainfall averages. p. 783. (Oct. 21.)

- Engineering news.* New York. v. 74. 1915—Continued.
 Aguirre, Frank M. Havana rainfall records. p. 830. (Oct. 28.)
 Silliman, Henry D. Sewer gagings and maximum flow in a Seattle outfall. p. 832-834. (Oct. 28.)
Journal of geography. Madison. v. 14. October, 1915.
 Reed, William G. Outline for the study of frost and protection against frost damage. p. 54-55.
Journal of geology. Chicago. v. 23. May-June, 1915.
 Sinnott, Edmund W., & Bailey, Irving W. The evolution of herbaceous plants and its bearing on certain problems of geology and climatology. p. 289-306.
Great Britain. Meteorological committee. Tenth annual report. London, 1915.
 Shaw, W[illiam] N[apier]. Memorandum on the organisation of the meteorological office, in London, with special reference to agricultural meteorology. p. 65-74. [Sketches the history and scope of all branches of work carried on by the Office; not exclusively those relating to agricultural meteorology. See this REVIEW, p. 449.]
 Shaw, W[illiam] N[apier]. Climatological stations and local authorities. p. 75-78. [See this REVIEW, p. 454.]
Nature. London. v. 96. September 30, 1915.
 Davison, C. The Etnean earthquakes of May, 1914. p. 123-124.
Symons's meteorological magazine. London. v. 50. September, 1915.
 Pettersson, Hans. On weather forecasts and the temperature predictions of Strömberg. p. 121-126.
Scientific American supplement. New York. v. 80. October 23, 1915.
 Aerial warfare and the weather. Conditions that affect various classes of aircraft. p. 259.
Archives des sciences physiques et naturelles. Genève. Tome 40. 1915.
 Pictet, Arnold. Influence de la pression barométrique sur le développement des Lépidoptères. p. 74-77. (15 juillet.)
 Pictet, Arnold. Le développement des Lépidoptères: le rôle de la température en relation avec la pression barométrique. p. 161-164. (15 août.)
- Deutsche luftfahrer Zeitschrift.* Berlin. 19. Jahrgang. 18. August 1915.
 Krebs, Wilhelm. Der höchste Ballon-Aufstieg: 35030 m Meereshöhe. p. 135-137.
Leipzig. Geophysikalisches Institut der Universität. Veröffentlichungen. Leipzig. 3 ser. 1915.
 Hesselberg, Th. Über die Beziehung zwischen Luftdruck und Wind im nichtstationären Fall. p. 175-203. (Heft 7.)
 Hesselberg, Th. Über eine Beziehung zwischen Druckgradient, Wind und Gradientenänderungen. p. 207-216. (Heft 8.)
 Hesselberg, Th., & Sverdrup, H. U. Die Reibung in der Atmosphäre. p. 241-309. (Heft 10.)
Meteorologische Zeitschrift. Braunschweig. Band 32. September 1915.
 Dietzus, R[obert]. Windverhältnisse in der Höhe bei südöstlichem Unterwind in Wien. p. 385-395.
 Schmidt, Wilhelm. Über Witterung und Befinden des Menschen. p. 395-403.
 Schubert, Joh[annes]. Das feuchte Thermometer als Wärmemass und eine graphische Psychrometertafel. p. 404-405.
 Schmidt, Wilhelm. Über den Zusammenhang zwischen Niederschlag, Abfluss und Verdunstung. p. 408-411.
 Schmidt, Wilhelm. Ist Sonnenstrahlung auf die Sinkgeschwindigkeit der Wolkenteilchen von Einfluss? p. 411-412.
 Staikoff, St. D. Mittelwerte bei der barometrischen Höhenmessung. p. 412-414.
 Liznar, J[osef]. Zur barometrischen Höhenmessung. p. 414-415.
 Schütze, Alfred. Eine neue Fülltülle für Pilotballons. p. 416-417.
 Steiner, L[udwig]. Zum Korrelationsfaktor. p. 419-421.
 Hann, J[ulius] v. Der tägliche Gang des Luftdruckes an der Südspitze von Südamerika. p. 421-423.
 Billwiller, R[obert], jr. Der Walliser Talwind und der tägliche Barometergang. p. 423-425.
 Budig, W. Glatteisbildung am 5. März 1915. p. 426.
 Köppen, W[ladimir]. Einfluss der Unterlage auf die Wolkenbildung. p. 427.